NEPOMNYASHCHIY, A.I.; MUROMTSEV, V.I.; BAGDASAR'YAN, Kh.S.

Formation of ion-radicals under the effect of gamma rays on the system tetrahydrofuran - styrene at -196'. Dokl. AN SSSR 149 ne.4:901-904 Ap '63. (MIRA 16:3)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom S.S.Medvedevym.

(Furan) (Styrene) (Gamma rays) (Radicals (Chemistry))

BACDASAR YAN, Kh.S.; MUROMISEV, V.I.; SINITSYNA, Z.A.

Two-quantum photochemical reaction. Photolysis of a frozen solution of diphenylamine in ethyl alcohol. Dokl. AN SESR 152 no.2:349-351 S '63. (MIRA 16:11)

1. Fiziko-khimicheskiy institut im. L.Ya Karpova. Predstavleno Akademikom V.A. Karginym.

BAGDASAR'YAN, Kh.S.; SINITSYNA, Z.A.; MUROMISEV, V.I.

Two-quantum photochemistry. Proof of the second-triplet state molecules participating in the reaction. Dokl. AN SSSR 153 no.2:374-376 N '63. (MIRA 16:12)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavleno akademikom S.S.Medvedevym.

ACCESSION NR: AP4011446

S/0076/64/038/001/0141/0145

AUTHORS: Trosman, E. A. (Moscow); Bagdasar yan, Kh. S. (Moscow)

TITLE: Quantitative study of phenyl radical reactions with aromatic

compounds

SOURCE: Zhurnal fiz.khim, v. 38, no. 1, 1964, 141-145

TOPIC TAGS: phenyl reactivity, aromatic compound reactivity, isotope dilution, gas-liquid chromatography

ABSTRACT: This is a continuation of Bagdasr'yan's laborator's work on phenyl reactivity. The present study covers benzoyil peroxide and its decomposition at 1000 in a mixture of carbon tetrachloride and the compound being investigated. This is a method of competitive reaction with aromatic compounds, using benzoyl peroxide tagged with deuterium. Benzene and chlorobenzene yields were determined by the method of isotope dilution and gas-liquid chromatography. studying hydrogen atom addition to the ring and splitting it off, the relative reactivity of hydrogen atoms in the phenyl ring and in the side chains were found. The influence of different substituents

Card 1/2

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CCESSION NR: AP4011	446	-			
n the addition to the are discussed in colecules. The high	connection wit reactivity of	h the struct the \mathcal{L} -hydr	oure of the rogen in ben	reacting	1 . 3
iscussed. Orig. ar	t. nas: 3 rormu	las, 2 lable	.		
SSOCIATION: Fiziko-1 (Physic	khimicheskiy i o-Chemical Ins	nstitut imen titute)	ni L. Ya. Ke	rpová	
JBMITTED: 15Apr63		DATE ACQ: 1	.4Feb64	ENCL: 00	
JB CODE: CH		NR REF SOV:	007	OTHER: 004	

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

BAGDASAR'YAN, Kh.S.; REVZIN, A.F.

Determination of absolute rate constants for radical reactions. Part 1: Addition of trichlorobromomethane to cyclohexene and 1-heptene. Kin. i kat. 4 no.6:844-852 N-D '63. (MIRA 17:1)

1. Fiziko-khimicheskiy institut imeni J', Ya. Karpova.

REVZIN, A.F.; BAGDASAR'YAN, Kh.S.

Determination of the absolute rate constants of radical reactions. Part 2. Zhur. fiz. khim. 38 no.1:215-217 Ja'64. (MIRA 17:2)

1. Fiziko-khimicheskiy institut imeni L.Ya. Karpova.

ACCESSION NR: AP4035153

\$/0195/64/005/002/0358/0359

AUTHORS: Krongauz, V. A.; Bagdasar'yan, Kh. S.

TITLE: Observations on a paper by Yu. A. Kolbanovskiy, A. M. Brodskiy and L. S. Polak on the mechanism of inhibiting radiolysis

SOURCE: Kinetika i kataliz, v. 5, no. 2, 1964, 358-359

TOFIC TAGS: radiolysis, inhibition, inhibition mechanism, energy transfer, inhibitor concentration, benzene benzoyl peroxide phenanthrene, benzene benzoyl peroxide anthracene, energy transfer mechanism

ABSTRACT: In the works cited (Tr. 2 Vses. soveshch. po radiatsionnoy khimii, Izd-vo AN SSSR, M., 1962, str. 65, "All-Union Conference on Radiation Chemistry, and Dokl. AN SSSR, 139, 1081, 1961) Kolbanovskiy et al. discussed the inhibiting effects in the radiolysis of solutions created by small amounts of inhibitors, indicating this action was tied up with the transfer of energy from the solvent to the inhibitor. Examination of concentration curves (c) of additives plotted led to their conclusion that $1/G = C^2/3$. Their conclusions regarding the mechanism of energy transfer were made on this basis. Based on

ACCESSION NR: AP4035153

original work and other literature, the present authors disagreed with Kolbanovskiy et al., indicating that 1/G = C is just as possible as $1/G = C^2/3$, and that in the benzene-benzoyl peroxidephenanthrene (anthracene) system the solvent benzene is the primary acceptor is merely a secondary process (Kolbanovskiy felt energy was anthracene acceptor). The present work indicated the mechanism of energy transfer as related to concentration of additives requires a At low concentrations there is no easily determined relationship concentrations the relationship 1/G C seems to hold. Orig. art.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physical -Chemical Institute)

SUBMITTED: 07Mar63
SUB CODE: OC.NP

NR REF SOV: 008

ENCL: 00 OTHER: 002

Card 2/2

REVZIN, A.F.; BAGDASAR'YAN, Kh.S.

Determination of the absolute reaction rates of radical reactions. Part 3. Zhur. fiz. khim. 38 no.4:1020-1023 Ap '64.

(MIRA 17:6)

1. Fiziko-khimicheekiy institut imeni L.Ya. Karpova.

EVT(m)/EFF(c)/EIP(j) Pc-h/Pr-h ASD(p)-3/RAEM(i) RM/MLK ACCESSION NR: AT4049366 S/0000/64/000/000/0265/0271

AUTHOR: Bagdasar'yan, Kh. S., Sinitsy'na, Z. A., Milyutinskaya, R. I.

TITLE: Kinetic study on the effect of antioxidants during the oxidation of rubber. I. Kinetics of the uninhibited oxidation of rubber

SOURCE: Khimicheskiye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 265-271

TOPIC TAGS: synthetic rubber, rubber oxidation kinetics, antioxidant, benzoy percxide, azodiisobutyronitrile

ABSTRACT: The kinetics of oxidation of 0.1 g specimens of sodium-butadiene rubber were studied at 60-100C under constant oxygen pressure in a thermostat equipped with a differential manometer, and also with oxygen circulation and freezing out of the decomposition products in a cold trap. The specimens were purified by reprecipitation and depositeu from benzene solution as approximately 0.1-mm thick films. The tests showed that oxidation rates increased during an initial period, and that this lag period does not depend on the presence of inhibitors or their consumption. A second and nearly stationary period was followed by the rapid decrease of oxidation rates in the third and final period. The initial period was not affected by removal of oxidation products, nor by the thickness

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L 19745-65 ACCESSION NR: AT4049866

of the film, and addition of up to 3.58% benzoylperoxide or 4.68% azoisobutyrodinitrile did not change the rate of the stationary process, although the initial period decreased. The concentration of peroxides was determined in some runs by iodometric titration, revealing a stationary peroxide concentration of 23 and 14.5 mmol/mol monomer at 80 and respectively, within an error of 2 and 3 mmols. The kinetic model was based on a radical chain reaction with branching and R. and RO2. as species for rate determination. stationary rate was found to be proportional to oxygen pressure and to increase with . nture; the effective activation energy was approximately 15 kcal/mol, the branching te was at least 0.35, and the rate constant for decomposition of rubber peroxide was fac. 0.5) · 10-2 min -1 with an activation energy of approximately 21 kcal/mole. "The (2. position of benzoyl peroxide in rubber was studied by E. A. Trosman in the authors' lab story. The authors thank A. S. Kuz'minskiy and L. G. Angert for helping with the work and evaluating the results." Orig. art. has: 1 table, 4 figures and 18 formulas.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physiocochemical Institute)

SUBMITTED: 18Jul63

ENCL: 00

SUB CODE: MT, OC

NO REF SOV: 003

OTHER: 002

Cord 2/2

L 19746-65 LMT(m)/EFF(c)/EMP(j) Pc-4/Pr-4 RM/MLK

ACCF'SION A: AT4049867 S/C000/64/000/000/0272/0274

...UTHOR: Sinitsy*na, Z. A., Bagdasar'yan, Kh. S.

Kinetic study on the effect of inhibitors of rubber oxidation. II. Comparison of innibitors and their mixtures

SOURCE: Khimicheski ye svoystva i modifikatsiya polimerov (Chemical properties and the modification of polymers); sbornik statey. Moscow, Izd-vo Nauka, 1964, 272-274

7 PPC TAGS: synthetic rubber, rubber oxidation kinetics, antioxidant

ABSTR ACT: A study of the induction periods induced by various inhibitors during oxidation of sodium butadiene rubber at 100C in an apparatus described in the previous paper in the collection (AT4049866) showed that the length of the induction period depended in early on the amount of inhibitor added, and that phenothiazine (I). diphenyl-period depended in a concentration (II), 2, 2'-dimethyl-4, 4'-dihydroxy-5, 5'-di-tert.-butyldiphenylsulfide in the previous of the induction period of 3600 and 362 hrs. in concentrations of 0.001 and 0.0001 wt. % 0.01 wt. % If yielded 1380 hrs., 0.02 wt. % III yielded 1020 hrs., and 0.02 wt. % IV yielded 540 hrs., lesser effects being obtained with "Ca0-6" (2, 2"-dihydroxy-3, 3'-ii-tert.-butyl-5, 5'-dimethyl-diphenylsulfide), "Altax", Kaptax (2-mercaptobenz-1/2)

L 19746-65

ACCESSION NR: AT4049867

thiazole), sulfur with 3.15% azoisobutyrodinitrile, and no detectable effect being produced by anthracene or 3-diethylaminomethylbenzthiazolethione-2. The nearly complete consumption of phenyl-\(\textit{S}\)-naphthylamine during the induction period was proven by determining its concentration from the dye formed with p-nitroaniline. A synergistic effect was found with IV and "Ca0-6", most other combinations had additive effects, and a decrease in inhibitor activity was found with three combinations of IV. "The authors thank G. Ya. Richmond and Ye. N. Gur'yanova for providing some of the inhibitors" Orig. art. has:

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya. Karpova (Physiocochemical Institute)

SUBMITTED: 18Jul63

ENCL: 00

SUB CODE: OC, MT

NO REF SOV: 002

OTHER: 000

Card 2/2

TROSMAN, E.A.; BAGDASAR'YAN, Kh.S.

Determination of the relative rate constants for the reaction of a phenyl radical with substituted toluenes. Zhur.fiz.khim.
38 no.ll:2698-2700 N º64. (MIRA 18:2)

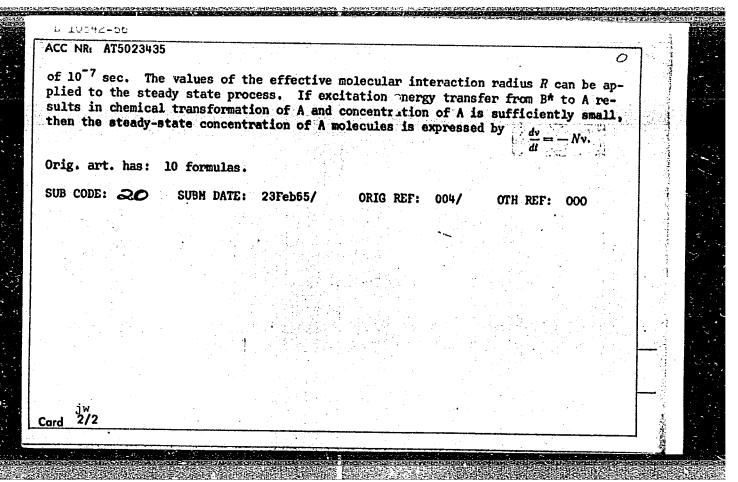
1. Fiziko-khimicheskiy institut imeni Karpova.

TAL ROZE, V.L., doktor khim. nauk, otv. red.; BAGDASAR YAN, Kh.S., doktor khim. nauk, red.; FRANKEVICH, Ye.L., kand. fiz.-matem. nauk, red.; SKURAT, V.Ye., kand. khim. nauk, red.

[Elementary processes of the chemistry of high energies; transactions] Elementarnye protsessy khimii vysokikh energii; trudy. Moskva, nauka, 1965. 317 p.

1. Simpozium po elementarnym protsessam khimii vysokikh energii, Moscow, 1963.

ACC NO ATTOONIOT IJF(c) WW/GS/AT/RM	V
ACC NR: AT5023435 SOURCE CODE: UR/0000/65/000/000/0105/0109	
AUTHOR: Tunitskiy, N. N.; Bagdasar'yan, Kh. S.	
ORG: none	o.
TITLE: Processes of energy transfer in condensed system	
SOURCE: Simpozium po elementarnym protsessam khimii vysokikh energiy. Moscow, 1963. Elementarnyye protsessy khimii vysokikh energiy (Elementary processes of the chemistry of high energies); trudy simpoziuma. Moscow, 1965, 105-109	
TOPIC TAGS: fluorescence, excited electron state, excited state, radiation effect	
ABSTRACT: A mathematical treatment of the resonance mechanism of electronic excitation energy transfer is given. This mechanism operates during extinguishing of fluorescence of excited molecules B^* by the acceptor molecules A , during sensibilized fluorescence of A molecules, during inhibition of chemical decomposition/of B^* by A , and during sensibilized photolysis or radiolysis of A molecules. For strong resonance type excitation energy transfer, the radius of the molecular interaction R depends only upon α and D where α is the energy transfer constant depending upon molecule orientation and D is diffusion constant. R is independent of molecular dimension. In general the magnitude of α is within 10^{-33} - 10^{-31} cm ⁶ /sec range and the magnitude of D is about 10^{-5} cm ² /sec; consequently, the magnitude of R is of the order	
Card 1/2	



BAGDASAR'YAN, Kh.S.; KULER, A.L.

Quantitative test of theory of resonance energy transfer, allowance made for Brownian motion. Opt. i spektr. 18 no.6:990-998 Je '65. (MIRA 18:12)

RM/WH/DS L 36965-66 EWP(e)/FYT(m)/EWP(j)/T ACC NR. A76027805 SOURCE CODE: UR/0063/66/011/002/0216/0223 AUTHOR: Bagdasar'yan, Kh. S. (Professor) 40 ORG: none TITIE: Dual quantum photochemical processes of the formation of radicals radicals SOURCE: Vsesoyuznoye khimicheskoye obshchestvo. Zhurnal, v. 11, no. 2, 1966, 216-223 TOPIC TAGS: ion radical, photochemistry, quantum chemistry, photoionization, reaction mechanism ABSTRACT: A review of the development of two-quanta photochemical processes covers two-quanta photochemistry, kinetics of two-quanta reactions, various types of two-quanta reactions including two-quanta sensitization, two-quanta reactions of photoinoization, two-quanta reactions of photodissociation, and the energy and mechanism of two-quanta reactions. It should be considered that two-quanta reactions are rare exceptions. In all cases where the lifetime in the triplet state is large, two-quanta reactions of the type examined should be more the rule than the exception. Frozen systems containing aromatic compounds in turn satisfy the condition indicated. However two-quanta freactions can occur at room temperature, for example, in boric acid glasses or under any other conditions for long-term existence of the triplet state. An increase in light intensity increases the quantum yield of two-quanta reactions and thereby increases the value of the two-quanta reactions in comparison with concurring single-quantum processes. Orig. art. has: 2 figures and 5 tables. [JPRS: 36,45; SUB CODE: 07, / SUBM DATE: none / CRIG REF: 026 / SUBM DATE: none ,' OTH REF: ORIG REF: 010 026 Card 1/1UDC: 66.085 2017

ACC NR: AP7003502	*)हें: Tun/0076/66/040/	606/1339/1346
AUGUOA: Mish, F.; Bagdasar yar	n, Kh. S.		23
Old: Physico-Chomical Institutionstitut)	to im. L. Ya. Karpov, E	oscow (Fiziko-khimi	chosiciy
"Madiolysis of Isoproposol and Isoproposol in the Liquid State	d Solutions of Benzophe to at 30 ⁰ C and in the V	none and <u>Naphthalen</u> itrcous State - 195	in C"
Roscow, Zmrnel Vizicheskoy Kl	nimii. Vol 40, 110 6, Ju	n 66, pp 1339-1 <i>3</i> 46	
AMSTRACT: Radiolysis of isopinapthalene in it was investigathe liquid or frozen, vitreous radiolysis products were investmethed. On radiolysis of vitrelectrons and hydroxyisopropylenzophenone, the ketyl radical phenone (the anion radical of in the presence of naphthalene on irradiation with light at a disappeared rapidly, while the	state. Samples were in state. In the latter stigated spectroscopical cous isopropanol at 77 l radicals formed. In al Ph. COH and the anion Ph. COH) formed in additional of the anion radical of the a	radiated either in case the intermedially and by the EPR (-196°C), solvate the presence of radical of benzotion to this, while the latter formed.	od .
Card 1/2	•	UDC: 541.15	-/

L 10781-67 ACC NR: AP7003502		·	
Desolvatation of the electrof Me ₂ COH radicals or alter formed by the radiolysis of the yield of acetone in rel passed through a maximum. superposition of the reaction 2 MeCOH > Me ₂ C=0 and the radiolysis of iso-ProH in radiolysis products of iso-in obtaining and deciphering and deci	iso-ProH. In the radiolys ation to the concentration The increase in the yield on McCOH + Ph.C=O → Mc.C=O · Mc.CHOH. The presence of the Tiquid state reduced the Proh. The authors thank V. g the EPR spectrum. napht	of added benzophenone of acetone was due to + Phowi on the naphthalene during yields of all . A. Sharpatiy for assistant. has: 7 figures and thalene	ance l table.
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L 8497-56 ENT(1)/ENT(m)/ENP(j)/T/ENA(m)-2/ENA(c) IJP(c)/RPL DS/JW/RM
ACC NR: AP5026471 SOURCE CODE: UR/0195/65/006/005/0777/0781

AUTHOR: Bagdasar'yan, Kh. S.; Kondrat'yev, V. A.

ORG: Physicochemical Institute im. L. Ya. Karpov (Fiziko-khimicheskiy institut)

TITLE: Two-quantum photoionization of N, N-dimethyl-p-phenylenediamine in an alcohol matrix at 77K

SOURCE: Kinetika i kataliz, v. 6, no. 5, 1965, 777-781

TOPIC TAGS: photoionization, amine, photochemistry, alcohol

ABSTRACT: It is known that aromatic amine molecules act as photosensitizers of the photochemical dehydrogenation of alcohols, and are also capable of photoionization in solid alcohol solutions to form the corresponding cation radicals. In order to determine the relative importance of these two photochemical reactions, the authors studied the kinetics of accumulation of cation radicals during photolysis of solutions of N,N-dimethyl-p-phenylenediamine in a 3:8 isopropanol-isopentane mixture at 77K. The initial rate of accumulation of the cation radicals was found to be proportional to the square of the light intensity. A study of the intermittent illumination effect showed that the characteristic lifetime of an intermediate particle in this reaction coincides with the lifetime of the Cord 1/2

L 8497-66

ACC NR: AP5026471

amine molecule in the triplet state. This reaction is thus a new example of a "true" two-quantum photochemical reaction resulting from the absorption of a light quantum by the molecule in the triplet state. It is concluded that depending upon the nature of the amine, there takes place either a two-quantum sensitization of the dehydrogenation of the alcohol, or a two-quantum photoionization of the amine. Orig. art. has: 4 figures, 1 table, and

SUB CODE: 07 / SUB DATE: 20Jul64 / ORIG REF: 003 / OTH REF: 005

&∤∜ Cord 2/2

L 13103-63 EWT(1)/HDS AFFTC/ASD/SSD

ACCESSION NR: AP3003417

\$/0051/63/015/001/0100/0106

AUTHOR: Tunitskiy, N.N.; Bagdasar'yan, Kh.S.

53

TITLE: Concerning resonance excitation energy transfer between molecules taking diffusion into account:

SOURCE: Optika i spektroskopiya, v.15, no.1, 1963, 100-106

TOPIC TAGS: luminescence, energy transfer, diffusion, deactivation

ABSTRACT: The authors consider the time variation of the concentration of excited molecules in a luminescent solution under the influence of spontaneous deactivation and resonance energy transfer, the probability of which equals α/r^m , where r is the distance from the excited molecule to the quenching center and α is a constant. The problem reduces to solution of a diffusion equation with a sink. From the solution one can find the ratio of the steady-state rate of change of the concentration of excited molecules to the initial rate for m=4 and m=6. This ratio depends on the dimensionless parameter α/DR_0^{m-2} , where D is the diffusion coefficient and R_0 is the sum of the radii of the excited molecule and the quenching center. From comparison with the equations of coagulation theory there can be found the radius of the equivalent absorbing sphere. The authors also consider

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L 13103-63

ACCESSION NR: AP3003417

the problem of the concentration of excited molecules in the presence of a constant source of such molecules (steady excitation) and elucidate the roles of two excitation energy loss mechanisms for different values of the parameter in the two extreme cases when D \rightarrow 0 and when D \rightarrow ∞ . There is a significant difference between the end results for the two cases for different values of α in the reasonable range from 10-30 to 10-33 cm⁶/sec. Orig.art.has: 36 formulas, 1 table and

AUSOCIATION: none

SUBMITTED: 16Nov62

DATE ACQ: 30Jul63

ENCL: 00

SUB CODE: PH

NO REF SOV: 007

OTHER: 001

Cerd 2/2

ACCESSION NR: AP4040489

s/0190/64/006/006/1098/1103

AUTHORS: Bagdasar'yan, Kh. S.; Milyutinskaya, R. I.

TITLE: Kinetic investigation of the action of inhibitors of rubber exidation

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 6, 1964, 1098-1103

TOPIC TAGS: rubber oxidation inhibitor, oxidation induction period, molecule lifetime, oxidation initiator, sodium butadiene rubber

ABSTRACT: The authors studied the inhibited oxidation of sodium butadiene rubber in the temperature interval 90-100°. They found that the duration of the induction period for various inhibitors varies by a factor in excess of 100. The amount of oxygen utilized during the induction period is from 10 to 1000 times the amount of the added inhibitor. The inhibited oxidation of rubber has been analyzed for the case when the reciprocal of the rubber-peroxide decomposition constant is much less than the induction period. The induction period T may be represented by the approximation $T \approx \beta x_0 (1-S)V_{in}$, where β is the inhibition coefficient (ranges from 0 to 2), x_0 the initial concentration of the inhibitor, S the regeneration coefficient of the inhibitor (ranges from 0 to 1), and V_{in} the initiation rate.

MILYUTINSKAYA, R.I.; BAGDASAR'YAN, Kb.G.

New data on the sensitized formation of cation radicals in the low temperature radiolysis of films containing aromatic amines. Zhur. fiz. khim. 38 no. 3:776-778 Mr 164.

(MIRA 17:7)

1. Fiziko-khimicheskiy institut imeni 1.Ya. Karpova.

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

BAGDASAR'YAN, Kh.S.; KONDRAT'YEV, V.A.

Two-quantum photoionization of N,N-dimethyl-p-phonylenediamine in alcohol matrix at 77°K, Kin.i kat. 6 nc.51777-781 S=0 '65.

(MIRA 18:11)

1. Fiziko-khimicheskiy institut imeni Karpova.

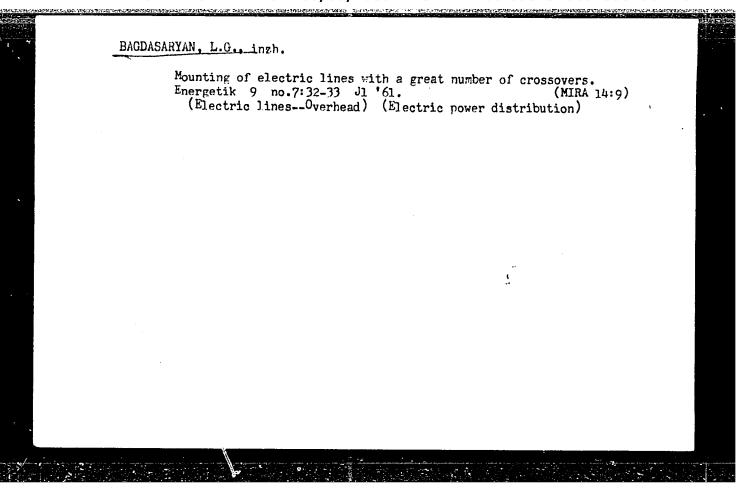
BAGDASARYAN, L.G., inzh.

Laying wires on a 39 km. long anchored span of a 330 kv. power transmission line. Energetik 8 no.11:24-26 'N '60. (MIRA 13:12) (Electric lines-Overhead)

BACDASARVAN, L.G., inzh.

Resetting wires on 330 kv. electric power transmission lines.
Energetik 9 no.8:23 Ag '61. (MIRA 14:8)

(Electric lines—Overhead)



TIMOFEYEV, B.V.; BAGDARSARYAN, L.L.

Results of a microphytological investigation of petroleums in Eastern Siberia. Dokl. AN SSSR. 154 no.1:102-103 Ja*64.

l. Vsesoyuznyy neftyanoy nauchno-issledovatel skiy geologorasve-dochnyy institut. Predstavleno akademikom A.A. Trofimukom.

AUTHOR: Bagdasaryan, L.S., Kharitonov, V.M., Marikyan, G.A. SOV/22-11-3-5/5

TITLE: Multichannel Amplitude Analyser With a Logarithmic Characteristic

for the Ecasurement of Impulses (Enogokanal'nyy amplitudnyy analizator impul'sov s logarifmicheskoy kharakteristikoy)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR, Seriya fiziko-

matematicheskikh, nord., 1998, Vol 11, Nr 3, pp 78-87 (USSR)

ABSTRACT: This is a short description of a device for the measurement

of impulses which is working since 1955. There are 9 figures and 1 American reference.

ASSOCIATION: Fizicheskiy institut Akademii nauk Armyanskoy SSR (Institute

of Physics of the Academy of Sciences of the Armenian SSR)

SUBMITTED: February 4, 1958

Card 1/1 1. Fulce analyzers--Operation 2. Fulse analyzers--Equipment

AUTHOR: Bagdasaryan, L.S. SOV/22-11-4-4/11

TITLE: The Evaluation of Experimental Results of Ionization

Measurings (Obrabotka eksperimental nykh dannykh ionizatsionnykh

izmereniy)

PERIODICAL: Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-mate-

maticheskikh nauk, 1958,

Vol 11, Nr 4, pp 21 - 28 (USSR)

ABSTRACT: For the determination of the rest mass of an elementary part-

icle from impulse and ionization there have been used the amplitude analyzer for impulses described by the author and others in [Ref 1], a five-layer proportional recorder, a

magnetic mass spectrometer and two Wilson cameras. On the basis of measurements carried out with 6000 hard particles an ionization distribution curve was constructed, the width of which is 32,5% in the half height. The author describes the (well-known) methods according to which the evaluation of the experimental results was carried out. The paper was written under the guidance of V.M. Kharitonov and with the assistance of G.A. Marikyan. The author thanks A.I. Alikhanyan for the

Card 1/2 interest in his work.

The Evaluation of Experimental Results of Ionization SOV/22-11-4-4/11 Measurings

There are 6 figures, and 8 references, 4 of which are Soviet, 2 English, and 2 American.

ASSOCIATION: Fizicheskiy institut AN Armyanskoy SSR (Physical Institute

AS Armenian SSR)

SUBMITTED: June 23, 1958

Card 2/2

BAGDASARYAN, L. S. Cand Phys-Math Sci -- (diss) "Determination of the mass of cosmic-ray particles by the ionizing capacity in multilayer proportional counter)." Yerevan, 1959. 3 pp (Physics Inst, Acad Sci Armenian SSR), 200 copies (KL, 48-59, 112)

-2-

SOV/120-59-1-17/50

AUTHORS: Bagdasaryan, L. S., Kharitonov, V. M.

TITLE: Multi-channel Pulse Amplitude Analyzer with a Logarithmic Characteristic (Mnogokanal'nyy amplitudnyy analizator impul'sov s logarifmicheskoy kharakteristikoy)

PERIODICAL: Pribory i tekhnika eksperimenta, 1959, Nr 1, pp 70-72 (USSR)

ABSTRACT: The instrument was designed for the measurement of the ionising power of charged particles from the cosmic radiation. The principle of operation of the device is as follows. The pulses from a proportional counter are amplified in a linear amplifier and applied to the input of the analyzer (see the block schematic of Fig 1). At the same time a timer circuit is triggered by a triple coincidence pulse. The timer produces a negative pulse having a duration of 30 µs and also generates sinusoidal wave forms; the start of the sinusoidal signal coincides with the end of the pulse. These two signals from the timer are also applied to the analyzer. The sinusoidal wave form serves as a time marker and the number of the cycles corresponds to the amplitude

Card 1/3

SOV/120-59-1-17/50

Multi-Channel Pulse Amplitude Analyzer with a Logarithmic Characteris-

of the measured pulse (to a logarithmic scale). The pulses are counted by means of a 3-decade counter. The circuit of the analyzer proper is shown in Fig 2. The first four tubes of the circuit operate in such a way as to produce a rectangular pulse whose amplitude is equal to that of the measured pulse and whose width is 30 μ s. The sixth tube of the circuit, together with condenser C_{11} and resistance R_{15} produce the lengthening of the trailing edge of the pulse. ential tail having a time constant of 1.1 ms is thus produced and the resulting pulse is then cut at a level of 6 V. The pulses are applied to a Schmitt trigger which produces pulses of constant amplitude; the duration of these pulses is proportional to the amplitude of the original input pulses. In the circuit of Fig 2 it was found that the length of the output pulses could be measured with an error of +0.3µs. The calibration curve of the analyzer is shown in Fig 4, where the axis of the abscissærepresents the number of channels and the axis of the ordinates corresponds to the pulse amplitude. Application of the instrument to practical problems is illustrated by the curves of Figs 5, 6 and 7, which represent the card 2/3 ionising power of fast cosmic particles (Note: After the

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

SOV/120-59-1-17/50

Multi-Channel Pulse Amplitude Analyzer with a Logarithmic Characteristic

publication of the issue of this journal, 1957, Nr 4, the editor received the following letter: "...the idea of a logarithmic conversion in an amplitude analyzer which was described in my paper on an amplitude analyzer with a logarithmic conversion in this journal, 1947, Nr 4, p 43, was taken from V. M. Kharitonov, who, together with L. S. Bagdasaryan, proposed it earlier in a different instrument. Signed by B. N. Moiseyev"). The paper contains 7 figures and 4 references, of which 2 are English and 2 Soviet.

ASSOCIATION: Fizicheskiy institut AN ArmSSR (Physics Institute of the Academy of Sciences of the Armenian SSR)

SUBMITTED: January 14, 1958.

Card 3/3

BAGDASARYAN, M.G.; aspirant

I-ray diagnosis of chronic otitis. Vop.rent.i onk. 6:103-111
(MIRA 16:2)
(EAR ---DISEASES) (DIAGNOSIS, RADIOSCOPIC)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

Tomography of the temporal bone. Vop.rent.i onk. 68123-129
'61. (TEMPORAL BONE—RADIOGRAPHY)

(TEMPORAL BONE—RADIOGRAPHY)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

PAGDASARYAN, M.G., mladshiy nauchnyy sotrudnik

Tomographic data in complicated ctitis. Vop. rent. i onk. 7:
83-30 *63

(MIRA 17:7)

BAGDASAR!YAN, Nora Aramovna; KOTLIKOV, Yakov Shmerovich; POPOV, A.S., red.

[Socialist competition and the struggle for production quality] Sotsialisticheskoe sorevnovanie i bor'ba za kachestvo produktsii. Moskva, Profizdat, 1965. 77 p. (Bibliotechka profsoiuznogo aktivista no.14(110)) (MIRA 18:8)

MELKONYAN, L.G.; BAGDASARYAN, R.V.; GEVORKYAN, A.V.

Problem of evaluation of & viscosity and the thermodynamic elasticity of macromolecules of polychloroprens rubber. Fokl.

AN Arm. SSR 41 no.1234-40 65. (MARA 18:8)

3. Vsesoyuznyy nauchno-issledovateliskiy proyektnyy institut polimernykh produktov. Submitted February 20, 1965.

MELKONYAN, L.G.; BAGDACARYAN, R.V.

Determination of the molecular weight composition of nairits by nephelometric titrations. Izv. AN Arm. 98R. Ehim. nauki 18 nc. A:333-340 465. (MIRA 18:12)

1. Vsesoyuznyy nauchno-issledovateliskly i proyektny; institut polimernykh produktov. Submitted August 24, 1964.

ATTER: Experimental investigation of the carrying especity of eluminum alloy 16-1 rods under compression

SOURCE: AN ArmSSR. Izvestiya. Seriya tekhnicheskikh nauk, v. 18, no. 3, 1965, 37-44

TOPIC TAGS: experimental method, stress load, deformation rate, compression strength, aluminum alloy / DK T alloy, TA 2 strain gauge, PAO 6 deflectomater, GMS 20 press

ABSTRACT: The compressive strength of D 16-T aluminum rods with T-, H-, and channel-shaped cross sections was investigated in a precision hydraulic press of the "Reyli" firm. The work was done under the scientific leadership of Professor I. Handblook First. We that's were part for the control of Professor I. Handblook First. We that's were part for the control of the intervals in the later of the control of the profession. The intervals in the later of the control of the profession of the intervals in the later of the control of the profession. The tree control of the control of the profession of the intervals in the later of the control of the profession. The profession of the control o

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CCESSION NR: AP5018663		3
ield stress at 0.2% deform	ation under compression, 42.5	kg/mm ² and under tension,
of the internal and externa the deflection of the mid:	ation was obtained on the ori l fibers at the missection an ction and the quarter length. eformation of the midsection	at at quarter length, and The results show that is larger than at the
quanten latuthu. Funthermon end the quanter length chai were communicht describatio punt of The William I. A count of the world to 200	approached plastic definations according to TW 113-60 and grew better with the raidulated. This control of the Indiana is a stroitelingth actorished in	on. The experimental data is to the method of limiting irransling the limiting irransling the limiting irransling to tatles.
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quanten lendik. Funtiermen end the querter lendth had were communed to calculation that is a large of the end of the world and analy MI of lengtheotics Meterials a	approached plastic definations according to TW 113-60 and gree better with the role lated. The project of the role	en. The experimental data to the method of limiting for limiting the limiting tree are relative. Sommunitarily (Armenian KII

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

BATASAR' YAN, SUREN M.

Physicians at the front (essays) Moskva, Narkomzdrev SSSR, Gos. izd-vo meditsinskoi literatury, "Medgiz" 1941. 67 p. (43-21626)

D807.R9B3

"Soviet Public Heelth up to the 32 nd Anniversary of the Great October Socialist Revolution," Sov. Med., No. 11, 1949.

BAGDASAR'YAN, S. M.

"One Hundred and Fifty Years of the Military Medical Academy,"
Terap. Arkhiv., 21, No. 3, 1949.

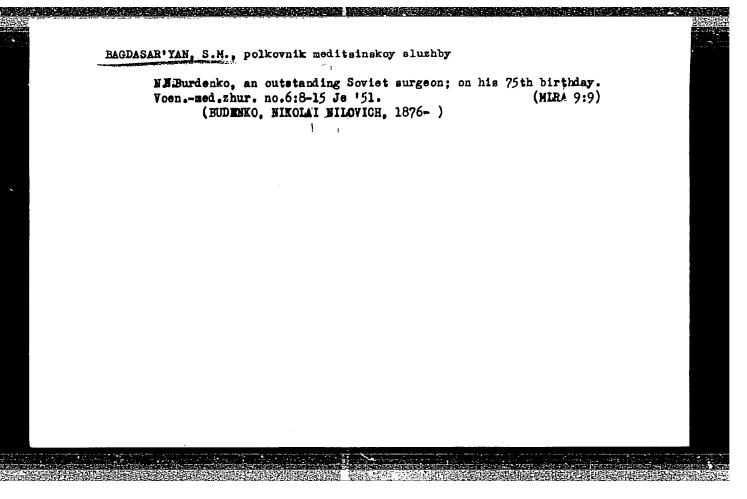
APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

BAGMASAR*IAN S. M.

Ucheryi Stalinakoi epokhi. K 75-lotiu so dnia rozhderiia N. N. Burdenko (1876-1951). Scientiat of the Stalin Era; 75th birth anniversary of N. N. Burdenko (1876-1951). Sovet. med., No. 6 June 51 p. 29-14.

1. Moscow.

CIML Vol., 20, No. 10 Oct 1951



BAGDASAR'YAN, S.M.

BURDENKO, M.E., redaktor; BAGDASAR'YAN, S.M., redaktor.

[Collected works] Sobranie sochinenii. Moskva, Isd-vo Akademii meditsinskikh nauk SSSR. Vol. 2. 1951. 291 p. Vol. 7 [Basays, scientific and popular articles] Publitsistika, nauchno-populiarnye stat'i. 1952. 1952, 264 p.

(MERA 7:5)

(Medicine, Military)

BAGDASAR'YAN, S. M.

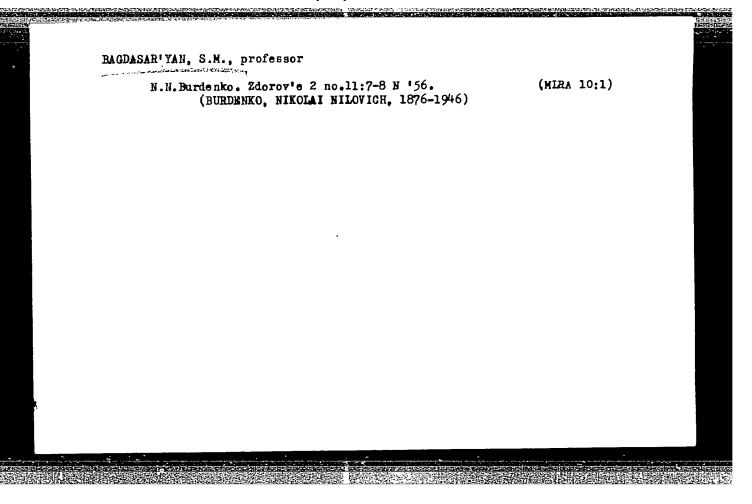
Surgery - History

"Surgeon's notes." V.Ye. Salishchev. Reviewed by S.M. Bagdasar'ian. Sov. med. 16, no. 7, 1952.

9. Monthly List of Russian Accessions, Library of Congress, November XXXX. Unclassified.

"The distory of Aussian Surgery"

pp. 95 Joyenno-Med. Zhur. no.10 Cotober, 1955

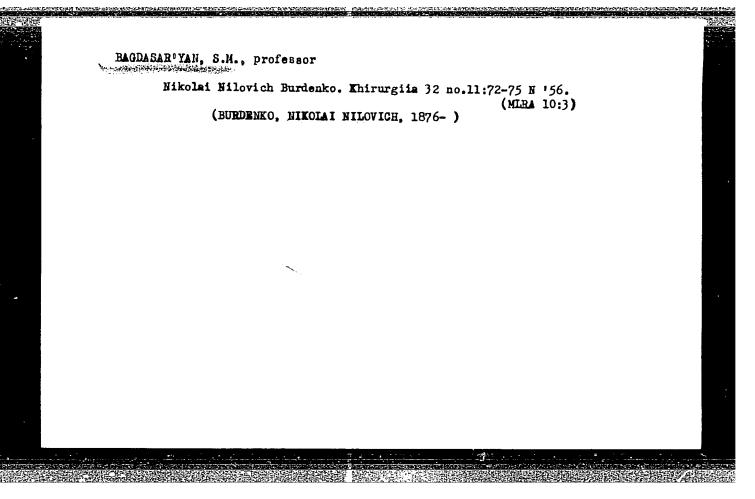


BAGDASAR'YAN, S.M., polkovnik meditsinskoy sluzhby, professor

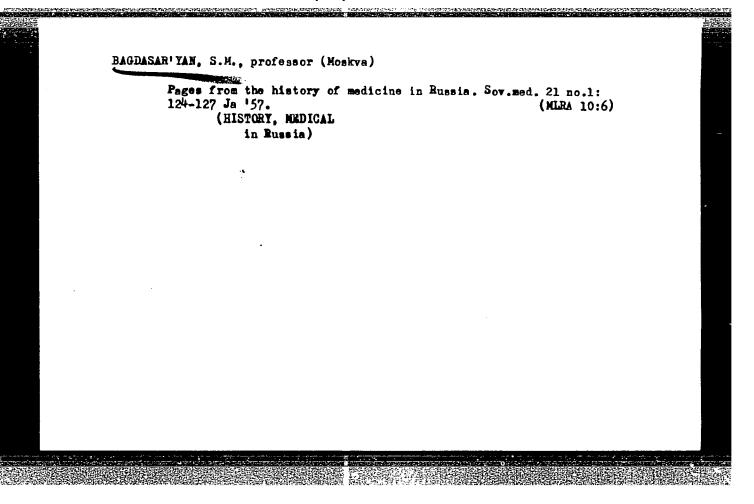
Memorable pages in the history of Soviet medicine("Selected works" by N.A. Semashko. Reviewed by S.M. Bagdasarian) Voen-med. zhur.
no.2:91-95 F '56
(FUBLIC HRALTH--HISTORY)

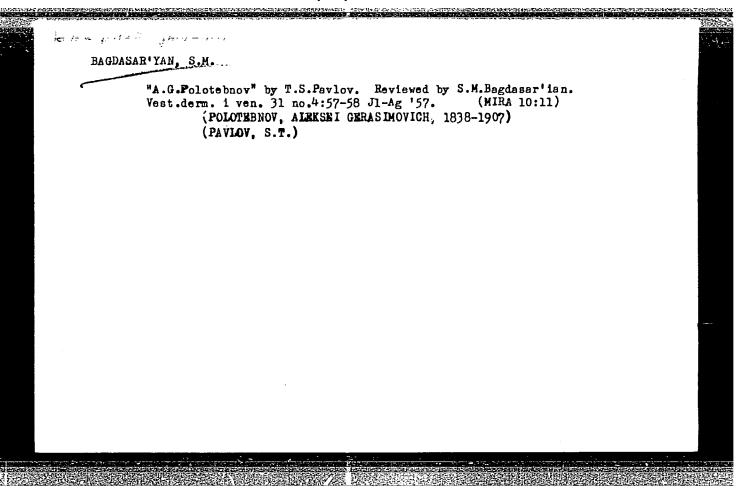
BAGDASAR'YAN, S.M., professor

Nikolai Nikolaevich Burdenko; on the tenth anniversary of his death. Voen.-med.zhur. no.10:78-84 0 '56. (MLRA 10:3) (BURDENKO, NIKOLAI NIKOLAEVICH, 1876-1946)



Pages 1 94-96 0	157	history	of Russia	n surgery.	Voenmed. (MIRA	zhur. 12:7)	no.10:	
	(4 333	,						

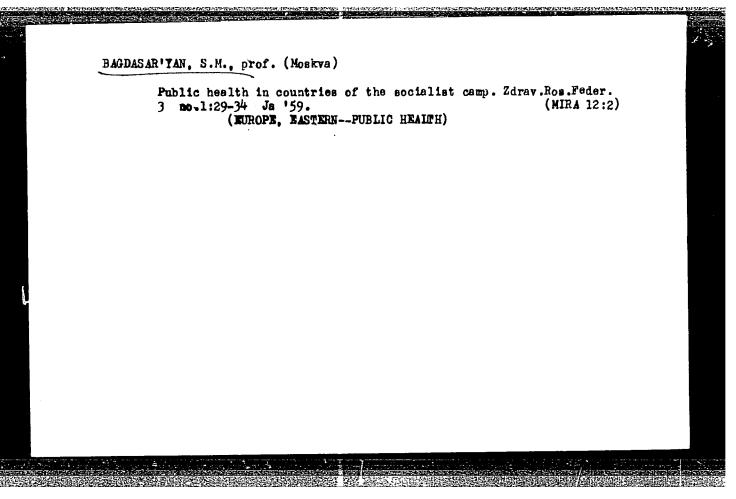




Current problems in scientific medical infromation. Sov.zdrav.
17 no.12:44-49 D '58. (MIRA 12:2)
(BIBLIOGRAPHY
problems in scientific med. information (Rus))

BAGDASAR'YAN, Suren Markarovich, prof.; IVANOV, B.A., red.

[Essays on the history of higher medical education; on the history of the Military Medical Academy] Ocherki istorii vysshego meditsinskogo obrazovaniia; k istorii Voenno-meditsinskoi akademii. Moskva, In-t organizatsii zdravookhraneniia i istorii med.im. N.A.Semashko, 1959. 104 p. (MIRA 13:3) (MEDICINE, MILITARY--STUDY AND TEACHING)



BAGDASARJAN, S.M., Prof. [Bagdasar'yan, S.M.]

On the history of activities of the People's Commissariat of Public Health of the RSFSR during the civil war and military intervention. Cesk. zdravot. 7 no.10:603-607 N 159

 Semaskuv ustav organizace zdravotnictvi a dejin lekarstvi v Moskve. (PUBLIC HEALTH, hist.)

From the history of the artivity of the People's Commissariat for Public Health of the R.S.F.S.R. during the civil war and foreign military intervention, 1918-1920. Zdrav. Ros. Feder. 4 no.12:25-29 D '60. (MIRA 13:12) (RUSSIA-REVOLUTION, 1917-1921-MEDICAL AND SANITARY AFFAIRS)

BAGDASAR'YAN, S.M., prof.

Results of the Seventh International Congress on the History of Medicine. Sov. med. 25 no.3:147-149 Mr 161. (MIRA 14:3) (MEDICINE_-CONGRESSES)

BAGDASAR'YAN, S.M., prof.; IVANOV, B.A.; PREOBRAZHENSKAYA, M.M.;
RZHANOVICH, P.K.; SHUR, Ye.I.; SAFONOVA, M.I.; MIRNOV, Z.,
red.

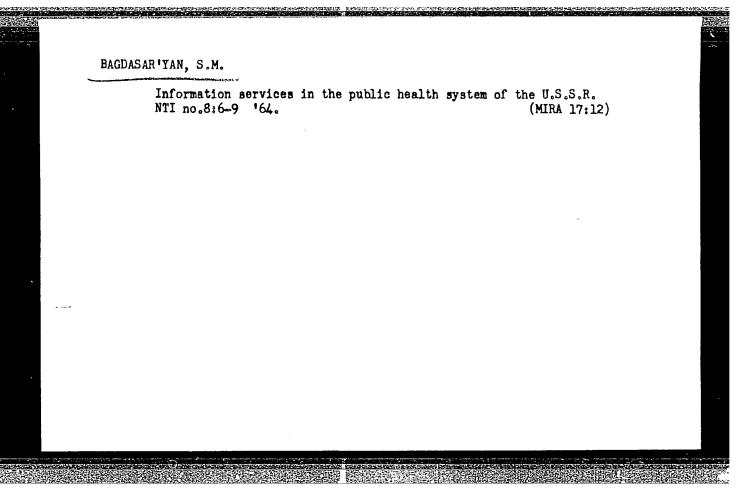
[Dissertations for the degree of Doctor and Candidate of Medical Sciences defended from 1951 to 1955] Dissertatsii na stepen' doktora i kandidata meditsinskikh nauk, zashchishchennye v 1951-1955 gg. Pod red. S.M.Bagdasar'iana. Moskva. Vol.3. Pt.1. Bibliografiia. 1962. 303 p. (MIRA 17:1)

1. Akademiya meditsinskikh nauk SSSR. Moscow. Otdel nauchnoi meditsinskoy informatsii.

BARSUKOV, M.I., otv. red. (Moskva); LUSHNIKOV, A.G., red.; ZHUK, A.P. red.; BACDASAR'YAN, S.M., red.; LISITSYN, Yu.P., red. (Moskva)

[Annals of the history of medicine; collection of papers]
Annaly istorii meditsiny; sbornik trudov. Moskva, Medgiz, 1963. 150 p. (MIRA 17:6)

1. Vsesoyuznoye nauchnoye istoriko-meditsinskoye obshchestvo.



マングラグサンカ人 2000 まつご

USSR/Physical Chemistry - Kinetics. Combustion. Explosives. Topochemistry.

Catalysis, B-9

Abst Journal: Referat Zhur - Khimiya, No 1, 1957, 389

Author: Bagdasaryan, S. S.

Institution: Azerbaijan State Pedagogical Institute

Title: Basic Equations for a Chemically-Reacting Gas Stream

Original

Periodical: Tr. Azerb. gos. ped. in-ta, 1955, Vol 2, 57-63

Abstract: The basic first and second law equations for a chemically reacting

multicomponent gas stream are given together with the equation of continuity as a function of the concentration, molecular weights

of the reagents and the velocity constant.

Card 1/1

BAGDASAKYAN, 2.3.

USSR/Atomic and Molecular Physics - Gases, D-7

Abst Journal: Referat Zhur - Fizika, No 12, 1956, 34462

Author: Bagdasaryan, S. S.

Institution: None

Title: On the Theory of Continuous Proces in Physical Adsorption

Original Periodical: Trans. of Azerbaydzhan State Pedagogical Institute, 1955, 2,

89-96

Abstract: A differential equation is derived to describe the continuous process at P = const and T = const, taking into account the physical adsorption of one of the components of a gas mixture by a moving layer of solid adsorbant. A solution of this equation is given for a one-component gas which, in accordance with the Langmuir isotherm, becomes adsorbed in 3 cases: very small, moderate, and extreme adsorption.

1 of 1

- 1 -

BAGDASAYAN, S.S.

PORTUNATED PROPERTY OF THE PRO

Adsorptive separation of gases in continuous-action systems. Zhurfiz.khim. 29 no.2:231-236 F *55. (MIRA 8:7)

1. Azerbaydzhanskiy pedagogicheskiy institut imeni V.I. Lenina, Baku. (Adsorption) (Gases) (Chemical engineering)

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

GAUNASAHYAN, S.S.

"This article presents a system of equations for the first and second laws of thermodynamics and equations of continuity of a chemically reactive multicomponent stream of gases." (U)

54M.1391

PSSR/Atomic and Molecular Physics - Liquids

D-8

Abs Jour

: Ref Zhur - Fizika, No 1, 1958, 819

Author

Bagdasryan, S.S., Abbas-zade, A.K.

Inst

Azerbaydzhan Pedagogical Institute

Title

: On the Structure of Liquids

Orig Pub

: Me'ruzeler. AzerbSSR, elmle akad., Dolk. AN AzerbSSR,

1957, 13, No 5 481-485

Abstract

: A clear model is proposed, according to which the liquid

consists of two groups of molecules -- "statistical

groups" of closely related particles, and "free molecules". On this bases, a qualitative explanation is given for the

simplest properties of liquids.

(Predstavleno akademikom Akademiiii nauk Azerbaydzhanskoy SSR) M. F. Nagiyevym.

Card 1/1

"APPROVED FOR RELEASE: 06/06/2000

CIA-RDP86-00513R000103010012-3

S/081/60/000/024/002/016 ADO5/ADO1

11.1000

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 24, p. 46, # 95499

AUTHOR:

Bagdasaryan S.S.

TITLE:

On the Classical Theory of the Structure of Pure Liquids

PERIODICAL:

Dokl. AN AzerbSSR, 1960, Vol. 16, No. 3, pp. 223-226 (Azerbaydzhan

summary)

TEXT: The applicability is shown of the Gibbsian distribution to the new liquid structure pattern, which was suggested earlier (RZhKhim, 1957, No. 24, # 76531). Expressions are obtained for the statistical integrals of the states, free energy, mean energy, entropy, and heat capacity of pure liquids.

Author's summary

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

APPROVED FOR RELEASE: 06/06/2000 CIA-RDP86-00513R000103010012-3"

V/E

\$/058/61/000/011/012/025 A058/A101

AUTHORS:

Abas-Zade, A.K., Bagdasaryan, S.S.

TITLE:

Contribution to theory of liquid structure

PERIODICAL: Referativnyy zhurnal. Fizika, no. 11, 1961, 169, abstract 11D22 ("Tr.

Az. rb. gos. ped. in-ta," 1960, no. 12, 3 - 17, Azerb. summary)

TEXT:

It is assumed that liquids consist of "statistical groups" and "free" molecules. Consideration is given to qualitative explanation of the following phenomena: evaporation and boiling, solidification and melting, surface tension

etc.

[Abstracter's note: Complete translation]

Card 1/1

CIA-RDP86-00513R000103010012-3" APPROVED FOR RELEASE: 06/06/2000

Temperature dependence of the heat of vaporization and surface tension of liquids. Dokl.AN Azerb.SSR 17 no.9:773-777 '61. (MIRA 15:3) 1. Azerbaydzhanskiy gosudarstvennyy pedagogicheskiy institut im. V.I.Lenina. Predstavleno akademikom AN AzSSR Z.I.Khalilovym. (Heat of vaporization) (Surface tension)

PAGDASARYAN, S.S.

Theory of new phase nuclei and of the liquid state boundaries.

Zhur. fiz. khim. 38 no.7:1816-1820 J1 '64.

(MIRA 18:3)

1. Azerbaydzhanskiy pedagogicheskiy institut imeni Lenina.

BAGDASARYAN, S.S.

Mechanism of phase transitions and boundary of the liquid state. Zhur.fiz.khim. 39 no.7:1685-1689 JI *65.

(MIRA 18:8)

1. Azerbaydzhanskiy pedagogicheskiy institut imeni V.I.Lenina.

Errors in forming a gastroentercanastomosis with an interintestinal communication. Khirurgita 32 no.6:69-71 Je '56. (MIRA 9:10) 1. Iz khirurgicheskogo otdeleniya dorozhnoy bol'nitsy (nach. K.H. Shevchenko, glavnyy khirurg S.T.Bogdasar'yan) Moskovsko-Kiyevskoy zheleznoy dorogi, G.Kaluga. (INTENTINES, surg. gastroentercanastomosis with interintestinal communication, errors in) (STOMACH, surg. same)

BAGDASAR'YAN, S.T.

Gestrectomy in a patient with ankylosing polyarthrosis. (Strumpel-Marie-Bakhterev disease; abstract. S.R. Bagdasar'ian. Khirurgiia 34 no.12: 94-95 D '58. (MIRA 12:1)

(STOMACH-SURGERI) (ARTHRITIS, RHEUMATOID)

89484

10.9100

S/022/61/014/001/004/010 B112/B202

16.7300

AUTHORS:

Bagdasaryan, Sh. Ye., Gnuni, V. Ts.

TITLE:

Resonance in forced nonlinear vibration of layered anisotrop-

ic shells

PERIODICAL:

Izvestiya Akademii nauk Armyanskoy SSR. Seriya fiziko-

matematicheskikh nauk, v. 14, no. 1, 1961, 41-49

TEXT: The authors study forced vibrations of elastic shells consisting of an odd number of layers. The layers are orthotropic and symmetrical with respect to the central layer of the shell. The elastic structure of the individual layers is widely similar to their geometrical structure. Two classes of shells are distinguished: shells with different families of curvature lines and shells with two equal families of curvature lines, i.e., axially symmetrical shells. On the basis of the hypothesis by Kirchhoff-Lyav a nonlinear differential equation of the form

 $f'' + 2\lambda f' + \omega^2 f - 1f^2 + df^3 = q \cos \vartheta t$ is derived as vibration equation

Card 1/3

89484

Resonance in forced nonlinear ...

S/022/61/014/001/004/010 B112/B202

for both cases. The coefficients ω , 1, d are determined by the elastic and geometrical moduli of the shell and are explicitly given for conic shells and spherical shells. The damping coefficient λ and the disturbance q are arbitrary. In the resonance case $(A = \omega + \epsilon)$ the following relation was obtained for the amplitude factor b:

 $b^{2}\left[\left(\xi-\kappa b^{2}\right)^{2}+\lambda^{2}\right]=\frac{a^{2}}{4\omega^{2}} \quad \text{with } \kappa=\frac{3d}{8\omega}-\frac{5l^{2}}{12\omega^{2}}. \quad \text{The boundaries of}$

the resonance frequency domain are determined by the condition $\frac{db}{d\epsilon} = \infty$ or

by its equivalent condition $\epsilon^2 - 4\kappa b^2 \epsilon + 3\kappa^2 b^4 + \lambda^2 = 0$. Although the nonlinearity of the vibration does not influence the maximum value $b_{max} = \frac{q}{2\omega\lambda}$ of the amplitude factor, it gives rise to a series of resonance types characterized by $\vartheta = \frac{\omega}{2} + \epsilon$, or $\vartheta = 2\omega + \epsilon$; they are discussed at the end of this paper. There are 5 figures and 9 Soviet-bloc references.

Card 2/3

89484

Resonance in forced nonlinear ...

S/022/61/014/001/004/010 B112/B202

ASSOCIATION: Institut matematiki i mekhaniki AN Armyanskoy SSR (Institute of Mathematics and Mechanics AS Armyanskaya SSR)

SUBMITTED:

May 20, 1960

Card 3/3

BAGDASAR'YAN, V. On the advanced "Aleshnikovskii" State Farm. Sel.stroi. 15

no.1:8-9 Ja '60.

 Direktor sovkhoza "Aleshnikovskiy" Stalingradskoy oblasti. (Volgograd Province—Farm buildings)

(MIRA 15:7)

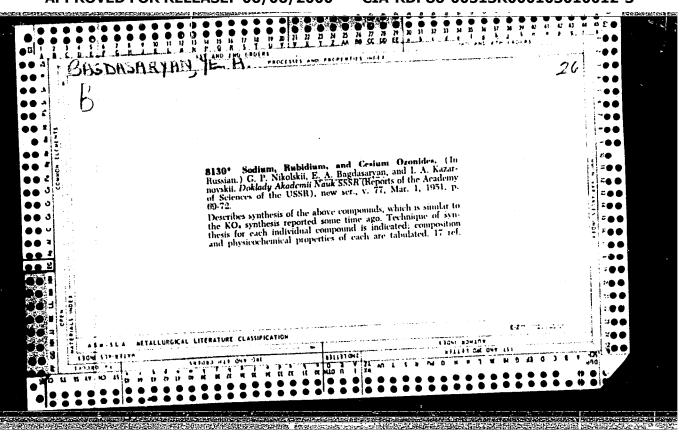
	with one's own hands		erials. Stroitel' mira	10:6)
1. Dir	ektor Pervomayskogo (Kasakhsta	sovkhoma nBuilding)		
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ZORABYAN, A.; BAGDASARYAN, Ye.

New procedures in chemical processing of fermented solution of citric acid at the Spitak Sugar Refinery. Prom.Arm. 4 no.6: 40-41 Je '61. (MIRA 14:8)

l. TSentral'naya nauchno-issledovatel'skaya laborator**iya** Upravleniya pishchevoy promyshlennosti Sovnarkhoza Armyanskoy SSR.

(Spitak-Citric acid)



Investigation on the synthesis of derived p-alkoxy benzoic acid. Dokl. AN Arm. SSR 19 no.2:47-52 154. (MIRA 8:7)
 Deystvitel'nyy chlen Akademii nauk Armyanskoy SSR. (for Mndzhoyan) Leboratoriya farmatsevticheskoy khimii Akademii nauk Armyanskoy SSR. (Benzoic acid)
•

BAGDASARYAN, Ye.G. Production of vitamin B12 by soil bacteria. Mikrobiologiia 34 no.3:502-505 My-Je 165. (MIRA 18:11) 1. Saratovskiy gosudarstvennyy universitet.

CA BAGDASHRYAN, Z. A.

Ozosides of sodium, rubidium, and cesium. G. P. Nikol'skii, Z. A. Bagdasar'yan, and I. A. Kararnovskii (I. Va. Karpov Phys-Chren: Thst., Moscow). Doklady (Ind. Nark S.S.S. 77, 60-72(1951). - Reaction between thely ground anhyd. NaOH (188.2%) and confirmed the ground anhyd. NaOH (188.2%) and confirmed to (8.1%) (b) at temps, between -50 and -60° produces an intencely yellow color. Retin. with Equid MH; (at the same how temp.) and evapu, leave a finely cryst, dark-red powder, which analyzes about 30°, NaOa, some 2.3% NaOH, and 4-0% H; (). The latter is due to extin., by the liquid MH; of some of the H; () of NaOH, H; (). At toom temp., NaO, decomposes according to NaO₁ = NaO₂ + composes according to NaO₃ = NaO₃ + 11/4O₃; this decompn. is practically complete in 53 hrs., and the color changes from dark-red to yellow. By the same method, with RbOH (181%), at -30°, an orange finely same method, with RbOH (181%), at -30°, an orange finely cryst, product is obtained contg. from 40 to 67% RbO₃, the rest RbOH (no H; ()). The high content of RbOH is due to its significant soly, in liquid MH, which was detd. to be 0.40 g. 100 ml, at -40° (new defn.). At room temp., the prod-

net decompases slowly according to RDO) = RDO) + 1/A)r. From CsOH (08.0%), the red-brown product obtained by the same method contains 64.7% CsO), the rest CsOH (00. HsO). The decompart CsO) = CsO₁ = 1/GO, is slow; (17.10%), it requires 28 days, as against 11 days for KO₂ at 17-10%, it requires 28 days, as against 11 days for KO₃ (C.1. 43, 410%). The Lact that no LiO₂ can be prepal, by (C.1. 43, 410%). The lact that no LiO₃ can be prepal, by the method which is successful with NaO₃. KO₃, RiO₃, which is explained on the bases of the assumed nuchant of the reaction, with MOH + 2O₃ = MO₃ + HO₃ + O₃ with the fate-delty step. The free energy ΔF_{20} of this reaction, for $M = K_1$ is estd. to -28 kcal. (with $\Delta H = 27$ tion, for $M = K_3$ is estd. to -28 kcal. (with $\Delta H = 27$ tion, for $M = K_4$ is estd. to -28 kcal. (with $\Delta H = 27$ tion, for $M = K_4$ is estd. to -28 kcal. (with $\Delta H = 27$ tion, for M = 10 and ΔH_3 from the value of ΔH for KO₃ and from estimates of the lattice energies by the lattice distances; the latter are taken to be the same in NaO₃ and RiO₃ as in NaO₃ and KN₃, resp., this equality being proved in the case of KO₃ and KN₃, resp., this equality being proved in the case of KO₄ and KN₃. These extra signer the following values of $-\Delta H$ and ΔH_3 is for the above rate-delty, reaction: $\Delta H = 11$; Na, 10 and -32. In the overall reaction ΔH and ΔH_3 is ΔH_3 and ΔH_3 in the overall reaction ΔH_3 and ΔH_3 in ΔH_3 and ΔH_3 in the overall reaction ΔH_3 and ΔH_3 and ΔH_3 in the overall reaction ΔH_3 in ΔH_3 and ΔH_3 in the overall reaction ΔH_3 is and ΔH_3 and ΔH_3 in the overall reaction ΔH_3 in ΔH_3 and ΔH_3 in the ΔH_3 in ΔH_3 i

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807/56-37-1-49/64

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TITLE:

Paramagnetic Resonance in Potassium Ozonide (Paramagnitnyy

rezonans v ozonide kaliya)

PERIODICAL:

Zhurnal eksperimental noy i teoreticheskoy fiziki, 1959, Vol 37,

Nr 1, pp 302 - 304 (USSR)

ABSTRACT:

Kazarnovskiy, Nikol'skiy and Abletsova (Ref 1) assumed that the magnetism of KO_3 is caused by the O_3 -ion and that the latter has

the character of a free radical with unsaturated valence. The authors of the present "Letter to the Editor" investigated these conditions by employing the method of paramagnetic electron resonance. Polycrystalline samples containing ~ 90% KO₃ were in-

vestigated at the frequencies of 2580, 9375, 12,000 and 37,000 megacycles, at room temperature, as well as at the temperature of liquid nitrogen. In the case of the first 3 experimental frequencies, an absorption line of symmetrical shape was in each case obtained, which had half-widths of 31 ± 3 , 39 ± 2 , and 45 ± 3 G respectively; at 37,000 megacycles, however, an asymmetric line (see figure) with a width of ~ 77 G (at room temperature) was

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found. The asymmetry indicates an anisotropy of the g-factor. For parallel and perpendicular orientation respectively of the crystal with respect to the direction of the external magnetic field, $g_{\parallel} = 2.005 \pm 0.003$ and $g_{\perp} = 2.012 \pm 0.002$ was found respectively. In the following, the contributions made by spin-lattice-, magnetic dipole-, and spin-spin exchange interaction is discussed. By means of the same method other authors (Ref 4) investigated also NaOz; at A- 1.25 cm they found a weak asymmetry of the line, and the value of the g-factor determined by them agrees within the error limits with that found here for KO3, which confirms the assumption that in ozonides the binding of the metal with the O3 group has ion character. The authors also investigated the spontaneous decay of KO_3 at a temperature of 295°K by means of diphenylpicrylhydrazyl as a standard. It was found that the KO3-decay developed approximately according to an exponential law (time constant 0.02/hour). The authors finally thank D. N. Shigorin and S. D. Kaytmazov for their help in carrying out the experiments and for discussing the results. There

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... Paramagnetic Resonance in Potassium Ozonide

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are 1 figure and 4 references, 3 of which are Soviet.

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cal Institute imeni L. Ya. Karpov)

SUBMITTED:

March 4, 1959

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